ABSTRACT OF THE DISCLOSURE

A non-volatile CAM-type memory having a multiplicity of memory cells ordered into a matrix of rows and columns, a word line and a match line associated with every row of cells and a first and a second bit line associated with every column of cells. In order to speed up the search for a data item in the memory and to simplify the circuit structure of the memory, each row of cells is associated with a ground control line and a ground line and every cell also includes a first controlled electronic switch connected between a ground line and a match line associated with the row containing the cell and having a control terminal connected to a match node of the cell and a second controlled electronic switch connected between the match node of the cell and the ground line associated with the row containing the cell, and further having a control terminal connected to the ground control line associated with the row containing the cell.

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